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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/816,287	03/21/2001	Vladislav Vashchenko	75292/10417	6106
759	90 06/03/2002			
Arter & Hadden, LLP Jurgen K. Vollrath 588 SUTTER STREET #531			EXAMINER	
			PRENTY, MARK V	
San Francisco, C	CA 94102		ART UNIT	PAPER NUMBER
			2822	5
			DATE MAILED: 06/03/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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Application No. Ap

09/816,287

Applicant(s)

VASHCHENKO et al.

Office Action Summary

Examiner

Prenty

Art Unit 2822

	The MAILING DATE of this communication appears	on the cover sheet with the correspondence address		
	for Reply			
	ORTENED STATUTORY PERIOD FOR REPLY IS SET	TO EXPIRE <u>three</u> MONTH(S) FROM		
	MAILING DATE OF THIS COMMUNICATION.	no event, however, may a reply be timely filed after SIX (6) MONTHS from the		
mailing	date of this communication.			
- If NO	period for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply a	nd will expire SIX (6) MONTHS from the mailing date of this communication.		
- Failure	to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the	e application to become ABANDONED (35 U.S.C. § 133).		
	patent term adjustment. See 37 CFR 1.704(b).	, , , , , , , , , , , , , , , , , , , ,		
Status				
1) 💢	Responsive to communication(s) filed on Mar 21, 2	001		
2a) 🗌	This action is FINAL . 2b) 💢 This act			
3) 🗆	Since this application is in condition for allowance eclosed in accordance with the practice under Ex pair	except for formal matters, prosecution as to the merits is rte Quayle, 1935 C.D. 11; 453 O.G. 213.		
Disposi	tion of Claims			
4) 💢	Claim(s) <u>1-10</u>	is/are pending in the application.		
4	a) Of the above, claim(s)	is/are withdrawn from consideration.		
5)	Claim(s)	is/are allowed.		
6) 💢	Claim(s) <u>1-10</u>	is/are rejected.		
7) 🗆	Claim(s)	is/are objected to.		
8) 🗆	Claims	are subject to restriction and/or election requirement.		
Applica	ition Papers			
9) 🗆	The specification is objected to by the Examiner.			
10)	The drawing(s) filed on is/are	a) \square accepted or b) \square objected to by the Examiner.		
	Applicant may not request that any objection to the d	rawing(s) be held in abeyance. See 37 CFR 1.85(a).		
11)	The proposed drawing correction filed on	is: a) \square approved b) \square disapproved by the Examiner.		
	If approved, corrected drawings are required in reply t	to this Office action.		
12)	The oath or declaration is objected to by the Exami	ner.		
Priority	under 35 U.S.C. §§ 119 and 120			
13)□	Acknowledgement is made of a claim for foreign pr	riority under 35 U.S.C. § 119(a)-(d) or (f).		
a)[☐ All b)☐ Some* c)☐ None of:			
	1. \square Certified copies of the priority documents hav	e been received.		
	2. Certified copies of the priority documents hav	e been received in Application No		
	application from the International Bure			
*S	ee the attached detailed Office action for a list of the			
14) 🗆	Acknowledgement is made of a claim for domestic			
a) L	The translation of the foreign language provisiona			
15)□	Acknowledgement is made of a claim for domestic	priority under 35 U.S.C. §§ 120 and/or 121.		
Attachm		1) The state of 1070 440 Procedure		
1) Notice of References Cited (PTO-892)		4) Interview Summary (PTO-413) Paper No(s).		
3) [] In	formation Disclosure Statement(s) (PTO-1449) Paper No(s).	6) Uther:		

This Office Action is in response to the papers filed March 21, 2001.

Claims 1-10 are rejected under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Independent claim 1 is indefinite in reciting "wherein the second region is reduced in size to reduce the number of minority carrier that are injected to at least a point where holding voltage is increased beyond the holding voltage of a conventional LVTSCR."

Claims 2 and 3 depend on independent claim 1 and are thus similarly indefinite.

Claim 3 is further indefinite in reciting "wherein the third region is increased in size to reduce space charge neutralization."

Independent claim 4 is indefinite in reciting "adjusting the size of the second region to limit injection of minority carriers to achieve the desired elevated holding voltage."

Claims 5 and 6 depend on independent claim 4 and are thus similarly indefinite.

Claim 6 is further indefinite in reciting "adjusting the size of the third region to increase electron injection to a point where space charge neutralization is sufficiently limited to achieve the desired elevated holding voltage."

Independent claim 7 is indefinite in reciting "providing an SCR-like structure having a p+ emitter that is sufficiently reduced in size so as to limit hole injection to the point where the space charge neutralization is so limited as to increase the holding voltage to the desired level."

Independent claim 8 is indefinite in reciting "providing a LVTSCR-like structure having a p+ emitter that is reduced in size below a predetermined value and having a n+ emitter that is increased in size to a point where the space charge neutralization is so limited as to increase the holding voltage to the desired level."

Independent claim 9 is indefinite in reciting "providing a LVTSCR-like structure having a p+ emitter that is sufficiently reduced in size so as to limit hole injection to the point where the space charge neutralization is so limited as to increase the holding voltage to the desired level."

Independent claim 10 is indefinite in reciting "providing a LVTSCR-like structure having a p+ emitter that is reduced in size below a predetermined value and having an n+ emitter that is increased in size to a point where the space charge neutralization is so limited as to increase the holding voltage to the desired level."

Claims 1-7, at least insofar as understood, are rejected under 35 U.S.C. §102 as anticipated by or, in the alternative, under 35 U.S.C. §103(a) as obvious over Prior Art Fig. 1.

With respect to claims 1-6, note the semiconductor material 110, well 112, first region 114, second region 116, third region 122 and fourth region 124.

With respect to independent claim 7, note p+ emitter 116.

Claims 1-6 and 8-10, at least insofar as understood, are rejected under 35 U.S.C. §102 as anticipated by or, in the alternative, under 35 U.S.C. §103(a) as obvious over Prior Art Fig. 2.

With respect to claims 1-6, note the semiconductor material 110, well 112, first

region 114, second region 116, third region 122 and fourth region 124.

With respect to independent claims 8 and 10, note p+ emitter 116 and n+ emitter 122.

With respect to independent claim 9, note p+ emitter 116.

Registered practitioners can telephone the examiner at (703) 308-4939. Any voicemail message left for the examiner must include the name <u>and registration</u> number of the registered practitioner calling, and the application's Serial Number.

Technology Center 2800's general telephone number is (703) 308-0956.

Mark V. Prenty